Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

U. S. DEPARTMENT OF AGRICULTURE.
SECTION OF VEGETABLE PATHOLOGY.
QUARTERLY BULLETIN. DECEMBER, 1889.

Vol. 5. No. IV.

# THE JOURNAL OF MYCOLOGY:

## DEVOTED TO THE STUDY OF FUNGI,

## ESPECIALLY IN THEIR RELATION TO PLANT DISEASES.

BY

B. T. GALLOWAY,
CHIEF OF THE SECTION.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1889.

# CONTENTS.


Page.

CONTRIBUTIONS TO THE HISTORY OF THE DEVELOPMENT OF THE PYRENOMYCETES (PLATE XIII), by Franz Von Tavel ..... 181

MYCOLOGICAL NOTES (PLATE XIV), by George Massee ..... 184

A PRELIMINARY LIST OF THE ERYSIPHEÆ OF MONTANA, by F. W. Anderson .. 188

STATUS OF SORGHUM BLIGHT, by Kellerman & Swingle. Note by T. J. Burrill. 195

ROOT FUNGUS OF NEW ZEALAND, by R. Allan Wight ..... 199

SOME NOTES UPON ECONOMIC PERONOSPOREÆ FOR 1889 IN NEW JERSEY, by Dr. B. D. Halsted ..... 201

PREVALENCE OF ERGOT IN 1889, by Dr. Erwin F. Smith ..... 203

AN EXPERIMENT IN THE TREATMENT OF BLACK-ROT OF THE GRAPE, by B. T. Galloway ..... 204

ERYSIPHEÆ UPON PHYTOPTUS DISTORTIONS, by F. W. Anderson and F. D. Kelsey ..... 209

TREATMENT OF APPLE-SCAB, by B. T. Galloway and E. A. Southworth ..... 210

NOTES, by B. T. Galloway ..... 214

Powdery Mildew of the Bean.—Rust of Flax.—Necessity for a redescription of the type species in Kew Herbarium.—New localities for Peronospora Cubensis, B. & C.

REVIEWS OF RECENT LITERATURE ..... 216

Traitement du Mildiou (Georges Beucker). Ueber Rostpilz, deren Teleutosporen kurz nach ihrer Reife keimen (Dr. Paul Dietel). Preliminary Report on Smut in Oats (Kellerman & Swingle). Study of Montana Fungi (F. D. Kelsey). Traitement du Black-rot (A. de L'Ecluse). Boleti of the United States (Charles H. Peck). A New American Phytophthora (Roland Thaxter). Die Pilze des Aprikosenbaumes (Felix von Thümen). Une Mission Viticole en Amérique (P. Viala). Contributions à la Pathologie Végétale (J. H. Wakker). Traitement de la Maladie des Pommes de Terre, des Tomates et des Melons par les Sels de Cuivre (Ed. Zacharewicz).

EXPLANATION OF PLATES ..... 228

INDEX ..... 229